



2011 PPT Stakeholders Meeting: Agricultural Sector

KIM FAULKNER, PhD, MPH

Agriculture, Forestry and Fishing

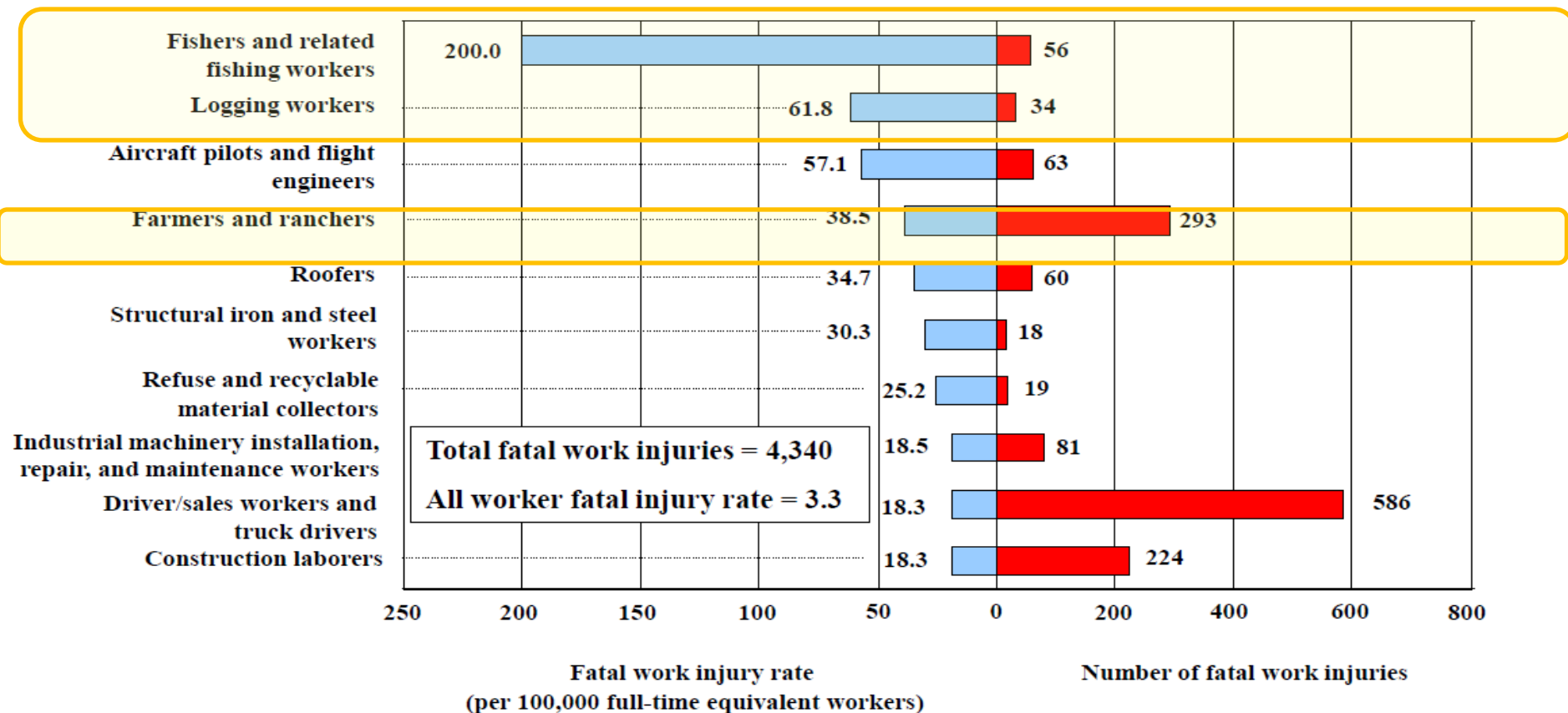
- 2.2 million workers
(1.8 million in agriculture)



Agriculture, Forestry, Fishing Sector Council: External Membership

- Employers and their advocates
 - *Example: National Pork Board*
- Family and worker advocates
 - *Example: Association of Farmworker Opportunity Programs*
- Educational and research institutions
 - *Example: The Penn State University*
- Health, safety, and injury compensation institutions
 - *Example: Workers Compensation Utah*
- Manufacturers of the sector's equipment
 - *Example: Association of Equipment Manufacturers*

Selected occupations with high fatal injury rates, 2009*



Fatal work injury rates were highest for fishers, logging workers, and aircraft pilots and flight engineers in 2009.

*Data for 2009 are preliminary.

SOURCE: U.S. Bureau of Labor Statistics, U.S. Department of Labor, 2010.

Agriculture, Forestry, Fishing

Injuries:

- Tractor-related
- Animal-related
- Musculoskeletal
- Falls
- Hearing loss

Illnesses:

- Respiratory
- Dermal
- Digestive
- Neural
- Thyroid dysfunction
- Cancer
- Reproductive effects
- Pesticide poisonings

2011 Projects with Personal Protective Technology

1. Agricultural Health Study: Pesticide Exposure Among Farmer Applicators
2. Vibration-Induced Injuries: Biodynamics and Diagnoses
3. PPT Surveillance Planning
4. PPT Surveillance in Agricultural Pesticide Handlers (K. Faulkner)
5. Physiological Models and Countermeasures
6. Mechanistically-Based In Silico Estimation of Dermal Absorption in the Workplace
7. National Children's Center for Rural and Agricultural Health and Safety

Personal Protective Technology (PPT)

NIOSH National Pesticide Personal Protective Equipment Use Surveillance and Intervention Program



Relevant Personal Protective Technology (PPT) Goals:

1. Inhalation -- Respirator use
2. Dermal -- Chemical barrier protective clothing
3. Broad-Based PPT Issues -- Surveillance



Understanding Personal Protective Equipment (PPE) Concerns



Addressing PPE Concerns

Personal Protective Equipment (PPE)

1. Lack of Knowledge

2. Limited Access

3. Lack of Acceptance

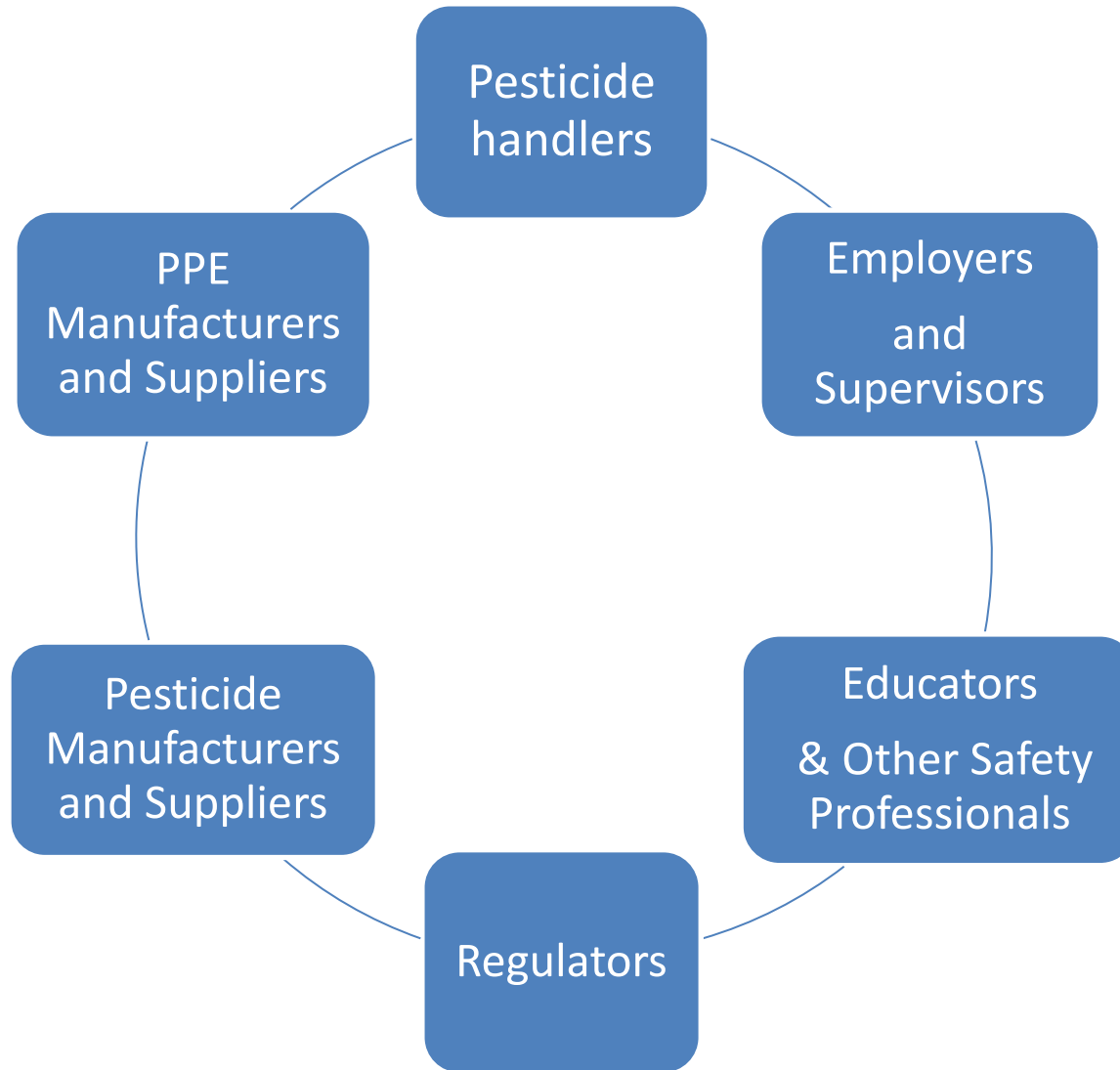


SPECIMEN LABEL
PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
CAUTION PRECAUCION

A Safety Roadmap for Agricultural Pesticide Handlers

*Overcoming Barriers to Optimal
Personal Protective Equipment (PPE) Use*

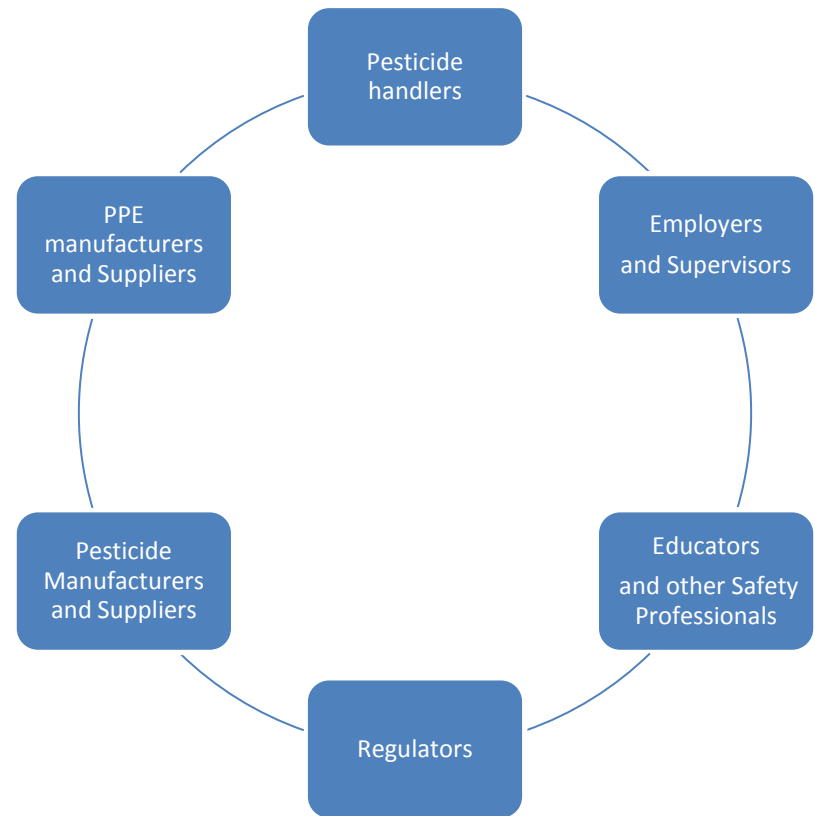
Teamwork and Expert Panel



Breakout Session 1:

Incorrect PPE

- Address root causes of
 - Lack of knowledge
 - Limited access
 - Lack of acceptance



Personal Protective Equipment (PPE)

Training and Demo Session

1. Cross-contamination and PPE failure- *Kit Galvin*
2. Chemical breakthrough demonstration- *Jim Zeigler*
3. Clothing display- *Anugrah Shaw*
4. Respirator display- *Jay Parker*
5. Respirator fit testing- *Jeff Birkner*

Personal Protective Equipment (PPE)

Poster Session

1. Comparison of Workplace Protection Factors for Different Aerosol Contaminants on Agricultural Farms
2. The Impact of a Rural Based Personal Protective Equipment Program
3. **Updates to the NIOSH National Pesticide PPE Surveillance and Intervention Program**
4. Listening to the Experts on Personal Protective Equipment: Orchard managers, pesticide handlers, and pesticide safety educators and agriculture safety specialists on PPE barriers and solutions in the tree fruit industry
5. A Partnership for Pesticide Exposure Reduction through PPE Outreach and Education
6. Weak Label Requirements and Inadequate Protective Gear Put Workers at Risk
7. Prevalence of respirator/dust mask use among U.S. primary farm operators: Analysis of the 2006 farm and ranch survey
8. North Carolina's Response to EPA's New Risk Mitigation Measures for Soil Fumigants

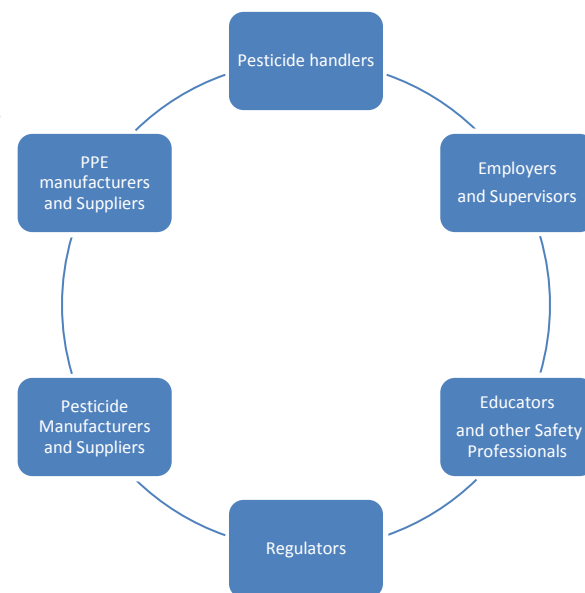
Breakout Session 2:

Wear, store, inspect and decontaminate PPE improperly

1. For one aspect of improper use...

Address root causes of

- Lack of knowledge
- Lack of acceptance



2. Question and Answer Session -- 30 minutes

Personal Protective Equipment (PPE)

Your Opinion Matters!



Agriculture Posters

#	Name	Poster Topic
1	Cho, Kyungmin Jacob / University of Cincinnati	Comparison of Workplace Protection Factors for Different Aerosol Contaminants on Agricultural Farms
2	Conners, Maureen / NE Center for Agricultural Health	The Impact of a Rural Based Personal Protective Equipment Program
3	Palmández, Pablo / Pacific NW Agricultural Safety and Health Center, University of WA	Listening to the Experts on Personal Protective Equipment: Orchard managers, pesticide handlers, and pesticide safety educators and agriculture safety specialists on PPE barriers and solutions in the tree fruit industry
4	Groce, Dennis / (FOH) Badger Technical Services	Updates to the NIOSH National Pesticide PPE Surveillance and Intervention Program
5	Syamlal, Girija / NIOSH DRDS SB	Prevalence of respirator/dust mask use among U.S. primary farm operators: Analysis of the 2006 farm and ranch survey
6	Richards, Kerry / Pennsylvania State University Pesticide Education Program	A Partnership for Pesticide Exposure Reduction through PPE Outreach and Education.
7	Ruiz, Virginia / Farmworker Justice	Weak Label Requirements and Inadequate Protective Gear Put Workers at Risk
8	Tutor, Robin / NC Agromedicine Institute	North Carolina's Response to EPA's New Risk Mitigation Measures for Soil Fumigants

Quality Partnerships Enhance Worker Safety & Health



Visit Us at: <http://www.cdc.gov/niosh/npptl/>

Disclaimer:

The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.

Thank you